

In the Claims:

Please amend the claims as follows:

1. (Currently amended) A security token, comprising:

- a one-time password mechanism, for rendering one-time password functionality;
- a public-key mechanism, for rendering public-key functionality with respect to said one-time password functionality; and
- communication means for connecting ~~[[said]]~~ the security token to ~~[[said]]~~ a host and for providing to ~~[[said]]~~ the security token ~~[[the]]~~ a power supply ~~required~~ for operating at least said public-key mechanism.

2. (Currently amended) ~~[[A]]~~ The security token according to claim 1, further comprising a display, for displaying at least ~~[[said]]~~ a one-time password.

3. (Currently amended) ~~[[A]]~~ The security token according to claim 1, further comprising a smartcard chip, for secure storage of keys and for rendering security-related functionality.

4. (Currently amended) ~~[[A]]~~ The security token according to claim 1, wherein said one-time password mechanism ~~comprise~~ includes means for generating a one-time value, said means selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:

- a real-time clock~~[[,]]~~; and
- a counter.

5. (Currently amended) ~~[[A]]~~ The security token according to claim 1, wherein said communication means is selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:

- a display for displaying ~~[[the]]~~ a password and thereafter manually providing ~~[[the]]~~ a displayed value of said password to ~~[[a]]~~ said host~~[[,]]~~;
- ~~[[means]]~~ a wired connection for connecting ~~[[said]]~~ the security token to said ~~host via a wired connection;~~ and
- ~~[[means]]~~ a wireless connection for connecting ~~[[said]]~~ the security token to ~~said host via a wireless connection.~~

6. (Currently amended) ~~[[A]]~~ The security token according to claim 5, wherein said ~~wired communication means~~ connection ~~further comprise means for providing a~~ provides said power supply to ~~[[said]]~~ the security token.

7. (Currently amended) ~~[[A]]~~ The security token according to claim ~~[[5]]~~ 6, further ~~comprising~~ including a chargeable power source, operative to be charged by ~~[[the]]~~ said wired connection ~~power supplied via said communication means, for~~ providing the power for operating ~~[[said]]~~ the security token while not connected to said host.

8. (Currently amended) A one-time password security token, for securely providing a one-time value to a host system, ~~[[said]]~~ the one-time password security token comprising:

- means for generating ~~[[said]]~~ the one-time value;
- a public-key infrastructure mechanism, for performing a public-key functionality with respect to ~~[[said]]~~ the one-time value; and
- communication means for connecting ~~[[said]]~~ the security token with ~~[[said]]~~ the host system and for providing ~~[[said]]~~ an encrypted one-time value to ~~[[said]]~~ the host system.

9. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim 8, wherein said public-key functionality with respect to ~~[[said]]~~ the one-time value is selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:
- encrypting ~~[[said]]~~ the one-time value by said public-key functionality~~[[,]]~~; and
 - digitally signing ~~[[said]]~~ a one-time password.
10. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim 8, further comprising a display, for displaying at least ~~[[the]]~~ said encrypted one-time value.
11. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim 8, further comprising a smartcard chip, for rendering security-related functionality.
12. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim 8, wherein ~~[[said]]~~ the one-time value is selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:
- ~~[[the]]~~ a real-time~~[[,]]~~;
 - ~~[[the]]~~ a value of a counter~~[[,]]~~; and
 - a group of random numbers.
13. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim 8, wherein said communication means is selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:
- a display for displaying ~~[[the]]~~ a password and thereafter manually providing ~~[[the]]~~ a displayed value of said password to ~~[[said]]~~ the host system~~[[,]]~~;

- ~~a wired communication means with~~ connection to ~~[[said]] the host system~~[,];
and
- ~~a wireless communication means with~~ connection to ~~[[said]] the host system.~~

14. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim ~~[[11]]~~ 13, wherein said ~~wired communication means~~ connection further ~~comprise means for providing a~~ provides power supply to ~~[[said]] the one-time password security token.~~

15. (Currently amended) ~~[[A]]~~ The one-time password security token according to claim ~~[[8]]~~ 14, further comprising a chargeable power source, operative to be charged by ~~the power supplied by said communication means~~ said wired connection, for ~~providing the power for operating~~ said security token while not connected to ~~[[said]] the host system.~~

16. (Currently amended) A security system comprising:

- at least one security token ~~comprising~~ including:
 - a token one-time password mechanism, for rendering one-time password functionality;
 - a token public-key mechanism, for rendering public-key functionality with respect to said token one-time password functionality; and
 - token communication means for connecting said at least one security token to ~~[[said]] a host~~ and for providing to said at least one security token ~~[[the]] power supply required for operating~~ at least ~~[[the]]~~ said token public-key mechanism;
- a host system, ~~comprising~~ including:

- a host one-time password mechanism, corresponding to ~~[[the]]~~ said token one-time password mechanism of said at least one security token, for rendering one-time password functionality;
- a host public-key mechanism, corresponding to ~~[[the]]~~ said token public-key mechanism of said at least one security token, for rendering public-key functionality;
- host communication means, corresponding to ~~[[the]]~~ said token communication means of said at least one security token, for communicating with said at least one security token and for providing to said at least one security token ~~[[the]]~~ power supply ~~required for operating~~ at least ~~[[the]]~~ said token public-key mechanism ~~of said security token~~.

17. (Currently amended) ~~[[A]]~~ The system according to claim 16, wherein said token communication means is selected from ~~[[a]]~~ the group ~~comprising~~ consisting of:

- a display embedded within ~~each of~~ said at least one security token, for displaying ~~[[the]]~~ a password and thereafter manually providing ~~[[the]]~~ a displayed value of said password to said host system~~[[,]]~~; and
- a ~~wired communication means through which said at least one security token can be provided with the~~ connection operative to supply to said at least one security token power supply required for performing for operating at least said token public-key operations mechanism.

18. (Currently amended) ~~[[A]]~~ The system according to claim ~~[[16]]~~ 17, wherein each ~~of~~ said at least one security token further ~~comprising~~ comprises a chargeable power source, ~~to be charged via the power supply provided~~ operative to be

charged by said ~~communication means~~ wired connection, for ~~providing the power~~
for operating said at least one ~~processor~~ security token while not connected to
said host, ~~thereby enabling to operate said security token without external power~~
supply.

19. (Currently amended) A method for authenticating a client by a host system,
[[said]] the method comprising:

- at [[said]] the client [[side]]:
 - [[(a)]] generating a first one-time value;
 - [[(b)]] performing a client public-key functionality with respect to said
first one-time value; and
 - [[(c)]] providing said first one-time value to [[said]] the host system; and
- at [[said]] the host system [[side]]:
 - [[(d)]] performing public-key functionality ~~which corresponds~~
corresponding to [[the]] said client public key functionality ~~performed at~~
step (b) with [[the]] said first one-time provided value; and
 - [[(e)]] generating a second one-time value ~~in substantially the same~~
~~manner as said first one-time value is generated~~; and
- authenticating [[said]] the client if ~~by the correspondence of~~ said second one-
time value corresponds to said first one-time value.

20. (Currently amended) [[A]] The method according to claim 19, wherein [[said]] a
public-key functionality with respect to [[said]] a one-time value is selected from
[[a]] the group ~~comprising~~ consisting of:

- encrypting said one-time value[[,]]; and
- digitally signing said one-time value.

21. (Currently amended) [[A]] The method according to claim 19, wherein said client is a security token.

22. (Currently amended) [[A]] The method according to claim [[19]] 21, wherein said providing ~~the encrypted~~ said first one-time value to said host system is carried out by a member of [[a]] the group comprising consisting of:

- providing a display of said first one-time ~~displaying said encrypted~~ value at the client [[side]] and thereafter manually providing said first one-time value from said display ~~the displayed value~~ to said host[[,]]; and
- a wired connection from ~~means for connecting~~ said security token to said host system ~~via a wired connection~~; and
- a wireless connection from ~~means for connecting~~ said security token to said host system ~~via a wireless connection~~.

For the convenience of the Examiner, the above claims as amended are repeated below in clean form without tracking notations. It is noted that all claims have the status of “(Currently amended)”:

1. A security token, comprising:
 - a one-time password mechanism, for rendering one-time password functionality;
 - a public-key mechanism, for rendering public-key functionality with respect to said one-time password functionality; and
 - communication means for connecting the security token to a host and for providing to the security token a power supply for operating at least said public-key mechanism.
2. The security token according to claim 1, further comprising a display, for displaying at least a one-time password.
3. The security token according to claim 1, further comprising a smartcard chip, for secure storage of keys and for rendering security-related functionality.
4. The security token according to claim 1, wherein said one-time password mechanism includes means for generating a one-time value, said means selected from the group consisting of:
 - a real-time clock; and
 - a counter.
5. The security token according to claim 1, wherein said communication means is selected from the group consisting of:

- a display for displaying a password and thereafter manually providing a displayed value of said password to said host;
 - a wired connection for connecting the security token to said host; and
 - a wireless connection for connecting the security token to said host.
6. The security token according to claim 5, wherein said wired connection provides said power supply to the security token.
 7. The security token according to claim 6, further including a chargeable power source, operative to be charged by said wired connection for operating the security token while not connected to said host.
 8. A one-time password security token, for securely providing a one-time value to a host system, the one-time password security token comprising:
 - means for generating the one-time value;
 - a public-key infrastructure mechanism, for performing a public-key functionality with respect to the one-time value; and
 - communication means for connecting the security token with the host system and for providing an encrypted one-time value to the host system.
 9. The one-time password security token according to claim 8, wherein said public-key functionality with respect to the one-time value is selected from the group consisting of:
 - encrypting the one-time value by said public-key functionality; and
 - digitally signing a one-time password.

10. The one-time password security token according to claim 8, further comprising a display, for displaying at least said encrypted one-time value.
11. The one-time password security token according to claim 8, further comprising a smartcard chip, for rendering security-related functionality.
12. The one-time password security token according to claim 8, wherein the one-time value is selected from the group consisting of:
 - a real-time;
 - a value of a counter; and
 - a group of random numbers.
13. The one-time password security token according to claim 8, wherein said communication means is selected from the group consisting of:
 - a display for displaying a password and thereafter manually providing a displayed value of said password to the host system;
 - a wired connection to the host system; and
 - a wireless connection to the host system.
14. The one-time password security token according to claim 13, wherein said wired connection further provides power to the one-time password security token.
15. The one-time password security token according to claim 14, further comprising a chargeable power source, operative to be charged by said wired connection, for operating said security token while not connected to the host system.
16. A security system comprising:
 - at least one security token including:

- a token one-time password mechanism, for rendering one-time password functionality;
- a token public-key mechanism, for rendering public-key functionality with respect to said token one-time password functionality; and
- token communication means for connecting said at least one security token to a host and for providing to said at least one security token power for operating at least said token public-key mechanism;
- a host system including:
 - a host one-time password mechanism, corresponding to said token one-time password mechanism of said at least one security token, for rendering one-time password functionality;
 - a host public-key mechanism, corresponding to said token public-key mechanism of said at least one security token, for rendering public-key functionality;
 - host communication means, corresponding to said token communication means of said at least one security token, for communicating with said at least one security token and for providing to said at least one security token power for operating at least said token public-key mechanism.

17. The system according to claim 16, wherein said token communication means is selected from the group consisting of:

- a display embedded within said at least one security token, for displaying a password and thereafter manually providing a displayed value of said password to said host system; and

- a wired connection operative to supply to said at least one security token power for operating at least said token public-key mechanism.
18. The system according to claim 17, wherein said at least one security token further comprises a chargeable power source operative to be charged by said wired connection, for operating said at least one security token while not connected to said host.
19. A method for authenticating a client by a host system, the method comprising:
- at the client:
 - generating a first one-time value;
 - performing a client public-key functionality with respect to said first one-time value; and
 - providing said first one-time value to the host system; and
 - at the host system:
 - performing public-key functionality corresponding to said client public key functionality with said first one-time value; and
 - generating a second one-time value; and
 - authenticating the client if said second one-time value corresponds to said first one-time value.
20. The method according to claim 19, wherein a public-key functionality with respect to a one-time value is selected from the group consisting of:
- encrypting said one-time value; and
 - digitally signing said one-time value.

21. The method according to claim 19, wherein said client is a security token.
22. The method according to claim 21, wherein said providing said first one-time value to said host system is carried out by a member of the group consisting of:
- providing a display of said first one-time value at the client and thereafter manually providing said first one-time value from said display to said host;
 - a wired connection from said security token to said host system; and
 - a wireless connection from said security token to said host system.